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(54) Title: TARGETED TUMOR THERAPY BY USE OF RECOMBINANT ADENOVIRUS VECTORS THAT SELECTIVELY REPLICATE IN HYPOXIC REGIONS OF TUMORS



(57) Abstract: The presently claimed subject matter provides conditionally replication competent adenoviral vectors that confer selective cytotoxicity on cells expressing HIF-1 by infecting cells that allow HIF-1 inducible promoters present within the vectors to function. Also provided are compositions and host cells based upon the vectors, as well as methods of propagating and using the vectors. The presently claimed subject matter further provides a method of inhibiting tumor growth by co-infecting cells in a tumor with a conditionally replication competent adenovirus vector in conjunction with a replication deficient adenovirus vector.

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